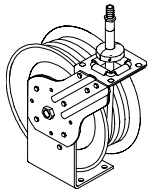
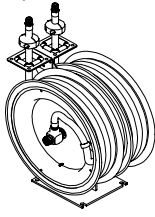


INSTALLATION AND MAINTENANCE MANUAL

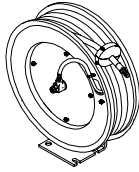
SPRING RETRACTABLE HOSE REELS: SERIES P, SH, MP, HP, C, E, EN, T, TDMP, SHW, P-W (ADD "EZ" PREFIX FOR EZ-COIL™ MODELS IN EACH SERIES)



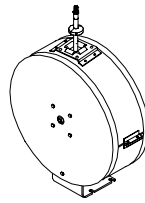
SERIES: P,SH,MP,HP



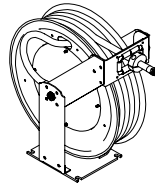
SERIES: C



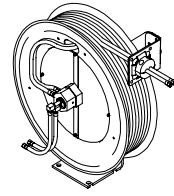
SERIES: E



SERIES: EN



SERIES: T, TDMP



SERIES: SHW, P-W

⚠ READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL, OPERATE, OR MAINTAIN THIS PRODUCT. ONLY QUALIFIED PERSONNEL SHOULD UNDERTAKE THE INSTALLATION AND COMMISSIONING OF THIS PRODUCT. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE.

PERSONAL SAFETY

- 1.) Ensure reel has been properly installed before connecting supply line. Note: Reel should NOT be installed above 15 feet maximum from the floor.
- 2.) Before connecting to reel, be certain supply line does not exceed rated pressure of the reel.
- 3.) If reel was purchased without hose, thoroughly review the "Hose Installation" instructions to properly install hose.
- 4.) Perform "Operational Check" per instructions to ensure reel is operating properly. NEVER use a spring retractable reel that is not performing as intended.
- 5.) If a leak should occur after applying pressure to the reel, immediately discontinue supply line pressure.

MOUNTING OF REEL

- 1.) Reel is supplied with guide arm in standard positions depending on model. Note: Series E does not include a guide arm and Series EN is enclosed reel as shown.
 - a.) Guide arm may be adjusted to desired location as shown in figure 1.0. Refer to figure 2.0 for Series EN models.
 - b.) Pull out hose until reel latches.
 - c.) Remove four bolts holding guide arm to support base.
 - d.) Reposition guide arm and securely fasten four bolts.
- 2.) To mount reel to a solid structure you will need four 7/16" M12 bolts, washers, and nuts. Four masonry bolts may be used depending on mounting application. Mounting hardware is NOT provided. The mounting base of the reel has two 1/2" slots and two 1/2" holes. Mounting patterns will vary depending on model.
- 3.) Loosely fit two pieces of mounting hardware to ceiling/floor/or wall so that reel can be slid into position. Fit reel. Install two pieces of hardware in other end of reel. Securely fasten all bolts and nuts.

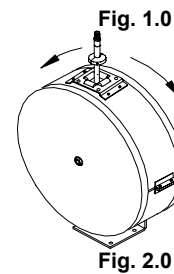
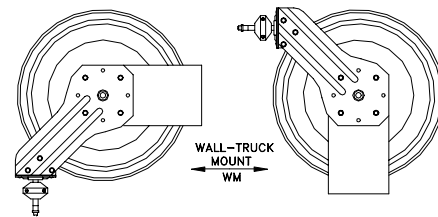
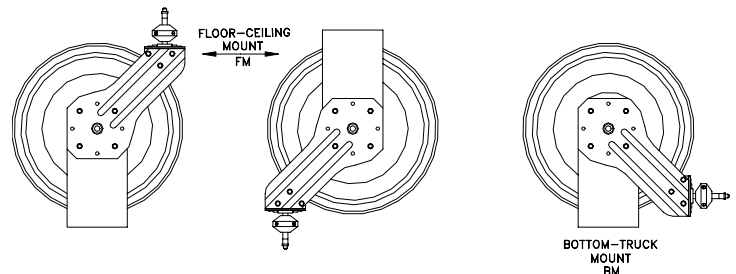
INSTALLATION

- 1.) Apply thread sealant to inlet hose and connect to the swivel joint on reel. Note: A swivel type connector is required on supply line.

⚠ CAUTION: IT IS IMPORTANT TO USE A "FLEXIBLE" INLET HOSE. DO NOT USE SOLID PIPING OR RESTRAIN INLET HOSE AS TO CAUSE ANY SIDE FORCE ON SWIVEL JOINT. THE WARRANTY IS VOID IF NOT PROPERLY INSTALLED.

- 2.) Flush some product through the system before connecting inlet hose to the source. Connect end to supply source.
- 3.) If reel includes hose (Otherwise, See Installation of Hose), flush some product through system before connecting end fitting, nozzle, or tool.
- 4.) Apply thread sealant to outlet hose fitting. Connect end, nozzle, or tool as desired.

- 5.) If hose stopper adjustment is required to allow easy reach of end fitting or tool. Latch reel at approximate desired location; loosen (two) ball stop bolts. Move ball stop and tighten bolts. Unlatch reel.



OPERATIONAL CHECK

- 1.) Check reel for correct operation by slowly pulling out hose. A clicking noise will be heard after each half revolution of the drum.
- 2.) **LATCH** the reel. Pull out the hose and allow it to slightly retract after the first, second or third "click" is heard.
- 3.) **UNLATCH** the reel. Slowly pull the hose until the clicking noise stops, and then allow the hose to retract. The hose stopper should rest against the roller hose guide.

⚠ CAUTION: DO NOT ALLOW HOSE TO RETRACT WITHOUT RESTRAINING RECOIL SPEED. NEVER LET GO OF THE HOSE WHEN REWINDING. NOTE: EZ-COIL™ MODELS ARE DESIGNED TO RETRACT AT A SLOW CONTROLLED SPEED.

- 4.) Apply line pressure and inspect for leaks. Periodically check hose for improper wear and swivel for possible leaks.
- 5.) Reels are shipped with approximately three pre-wraps of tension. This is adequate for most applications. However, if your application requires more or less tension, see "Spring Tension Adjustment" instructions.
- 6.) Lubrication is NOT required.

▪ **INSTALLATION OF OUTLET HOSE**

NOTE: Before proceeding, ensure that you are installing the proper size, length and type of hose that the reel is rated for. Consult factory if unsure of rating. Damage may occur if wrong hose is installed.

- 1.) Securely stabilize the reel.
- 2.) Wind the reel drum clockwise (facing the swivel) until the spring is tight.
- 3.) **Use Extreme Caution!** Back off approximately two turns and lock the reel drum to keep from rotating.
- 4.) Insert the MALE fitted end of the hose through the roller guide arm and through the cutout in the side of the drum flange.
- 5.) The MALE hose fitting should now be on the outside of the drum. Apply thread sealant, connect hose fitting to the swivel joint and secure the hose rigid with the (two) hose clamps.

NOTE: The hose clamps restrain the hose when fully extended, preventing strain between the fittings and swivel joint.

- 6.) **CAREFULLY** release the locking ratchet and **SLOWLY** allow the hose to retract onto the reel.

▪ **SPRING TENSION ADJUSTMENT**

- 1.) Release line pressure prior to making spring adjustments.
- 2.) Disconnect inlet hose.
- 3.) Pull out approximately 6 feet (2m) of hose and latch the drum.
- 4.) Add or subtract one wrap of hose as desired to acquire the proper tension on the reel.

NOTE: Spring tension adjustment is accomplished by adding wraps of hose around the drum (to increase tension) or subtracting wraps of hose (to decrease tension).

⚠ CAUTION: Improper tensioning of spring or adding too many pre-wraps may cause damage to spring mechanism. Only authorized personnel should make adjustments.

- 5.) Unlatch drum and check for proper tension. Connect Inlet hose.

▪ **SWIVEL SEAL REPLACEMENT**

- 1.) Remove inlet hose from swivel.
- 2.) Remove swivel from reel by unscrewing swivel from shaft. Disconnect hose from swivel.
- 3.) Remove retaining ring on swivel; pull out shaft from body.
- 4.) Replace the seals, lubricate and reassemble swivel.
- 5.) Fit hose to swivel then fit swivel to reel. **Do not over-tighten.**
- 6.) Reconnect inlet hose and test for leakage.

▪ **SPRING CANISTER REPLACEMENT**

- 1.) Pull out approximately 3 feet (1m) of hose and latch the reel.
- 2.) Remove outlet nozzle, gun or tool and hose stopper.
- 3.) Carefully unlatch the reel and **firmly hold the drum**. Allow the drum to **slowly** unwind until it stops.
- 4.) Remove the retaining ring, spacer and swivel unit. Note: on T-Series reels, the outboard support arm must first be removed.
- 5.) Remove the two or four nuts located on the support post side inside the drum cavity. **Do not** attempt to remove the spring canister nuts.
- 6.) Pull spring canister off drum and axle shaft.
- 7.) Reverse above procedure to re-assemble.
- 8.) Re-tension the reel by turning the drum three complete turns clockwise (from swivel side) and latch the drum.
- 9.) Feed the hose through the hose guide. Fit hose stopper, then unlatch the drum. Hose stopper should sit snugly against the hose guide.

⚠ CAUTION: Release line pressure prior to making any repairs or adjustments to the reel.

TROUBLE SHOOTING GUIDE

TROUBLE	CAUSE	REMEDY
HOSE WILL NOT FULLY RETRACT	a) Outlet nozzle, gun or tool is too heavy. b) Spring is fatigued. c) Field installed hose is too long.	a) Add spring tension. See "Spring Tension Adjustment". b) Add spring tension. See "Spring Tension Adjustment". Replace Spring Canister if required. c) Call local Distributor for correct specified hose length.
HOSE WILL NOT RETRACT AT ALL	Spring has lost all tension or has possibly broken.	a) Reinstall Spring Tension b) Replace Spring Canister. See "Spring Canister Replacement".
REEL WILL NOT LATCH	a) Incorrect operation. b) Dog spring or locking cam is broken or worn.	a) Reel latches on first, second, third or fourth "click". After forth "click" it automatically rewinds. b) Replace dog spring or locking cam.
FLUID LEAKS FROM SWIVEL	Swivel seals are damaged or worn.	Replace swivel seals. See "Swivel Seal Replacement". Caution: Be sure leak is not at Hose Fitting!
REEL RETRACTS TOO FAST (EZ-COIL™ MODELS ONLY)	EZ-Coil unit is defective	Replace EZ-Coil unit. Note: When weather is extremely hot, reel will operate slightly faster than under normal conditions. This function is normal.
HOSE LOCKS UP WHEN FULLY EXTENDED	Hose clamp is in the incorrect position.	Relocate hose clamp to optional location.